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## The Amplifier - v. 15, no. 6

Associated Students of the Montana College of Mineral Science and Technology

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# The AMPLIFIER

Montana College of Mineral Science and Technology

Vol. 15, No. 6

BUTTE, MONTANA

February 27, 1970

Welcome To  
Tech's  
E-DAYS

## E-DAYS (E As In Excitement)

Engineering Days are here again and this year the event promises to be the best that Tech has ever had. Nine technical or engineering departments and two humanities departments are actively involved with this year's festivities.

Some of the more important and interesting events, to be held on February 28 and March 1, include the traditional Bridge Busting Contest and Beard Growing Contest. Along with these are the Old Fashioned Dress Contest, Mucking Contest, Spike Driving Contest, and Gold Panning.

Some of the fascinating exhibits that will be featured are listed below, under their respective departments.

### Chemistry

Carbon-14 Dating and Chemical Microscopy.

### Engineering Eciense

Engineering Photography  
Space Flight Films  
Fluid Mechanics  
Soil Mechanics  
Strength Mechanics of Materials  
Electricity

### Geological Engineering

Prospector's Both  
Engineering Geology and Hydrology  
Rock Hound Trap  
Gold Display  
NASA Film on Lunar Soil Analysis  
Mineral and Fossil Display  
Structural Problem  
Free Fossils

### Geophysical Engineering

Microwave Relay  
Geophysical Prospecting  
Black Magic Truck  
Earthquake Seismology  
'Magic' Shows

### History

Russian Films  
Butte in the Past

### Math

Computer  
List of Math Courses Offered by Tech  
Math Problems  
Math In Your Life  
Assorted Math Books  
Requirements for B. S. in Math

### Metallurgy

Electron Microscope  
X-ray Diffraction  
Instron Tensile Tester  
Optical Microscopes

Liquid Nitrogen  
Electrolytic Refining  
Two Films of Metallurgical Interest

### Mineral Dressing

Flocculation Rate Apparatus  
Electrokinetics Exhibit  
Process Equipment—Crushers, Cyclones, Screens, Rod and Ball Mills, Flotation Cells and Jigs  
Flotation Experiments

### Mining Engineering

Rock Mechanics Exhibit  
Mine Models  
Pollution Control  
Ventilation Exhibit  
100 Ton Truck  
New Mining Methods

### Petroleum Engineering

Liquid Percussion Drill  
Scale Model Refineries  
Well-logging  
Products and By-products  
Continuous Film Series on Petroleum Industry  
What Oil Has Done for Montana  
Exploration for Oil  
Recovery Procedures  
Game of Chance—Play for a Wild Cat Oil Well—If You Strike Oil You Win a Prize

### Zoology and Botany

Pollution Genetics  
Trees and Shrubs in Winter

### Plus!!

The Apollo Command Capsule on Campus—be sure to see it!

Money is like a sixth sense — and you can't make use of the other five without it. Somerset Maugham

## New Football Coach With Impressive Record Will Lead Tech's Fighting Force Next Season



Robert J. Riley, 37, assistant football coach at Mesa College, Grand Junction, Colo., has been

named head of the Physical Education Department and head football coach at Montana Tech, announced Dr. E. G. Koch, president of the college.

Riley will succeed head mentor Charley Arney, who has accepted a coaching position at the University of Montana.

As an assistant at Mesa College, Riley was responsible for the defensive secondary and coached pass receivers. The Mesa Junior College Mavericks were Intermountain Collegiate Athletic Conference champions this past season with a 6-2-2 record and were ranked sixth nationally in pass defense.

Before going to Mesa College, Riley was defensive secondary coach at Wichita State University in Kansas. Prior to that time he was head football coach and taught at Garden City Junior College, Garden City, Kan.

His team was Jay-Hawk Conference Champions and ranked eighth among the National Junior College Athletic Association.

Riley also coached championship teams at several high schools before joining the junior college ranks. He coached and taught at J. K. Mullen High School, Denver, Colo.; Kimball High School, Kimball, Neb.; and Superior High School, Superior, Neb. Riley has an impressive record of 38 wins and 11 losses during his career as head coach in high schools and junior colleges.

He played and lettered four years at Northern State College, Aberdeen, S.D., where he graduated with a B.S. degree in education in 1959. He received his master's degree in physical education from the University of

(Cont. P. 8, Col. 4)

## Muckers Will Muck For Prizes

Montana Tech students will be trading books for shovels in the annual E-Day Mucking Contest. The object of the contest is to see who can load a one-ton mine car with gravel in the shortest amount of time. Last year's winner was Marty Salusso with a time of about two minutes. The world's record is one minute, 48 seconds. Prizes will be donated by various Butte merchants for both student and non-student divisions of the contest. Engineering Days will be February 28 and March 1. The contest is sponsored by the Anderson-Carlyle Society of the AIME.

Religion has done sex a great service by making it a sin.

## Tech's Computer Processes Cards For Physics Students Across Nation

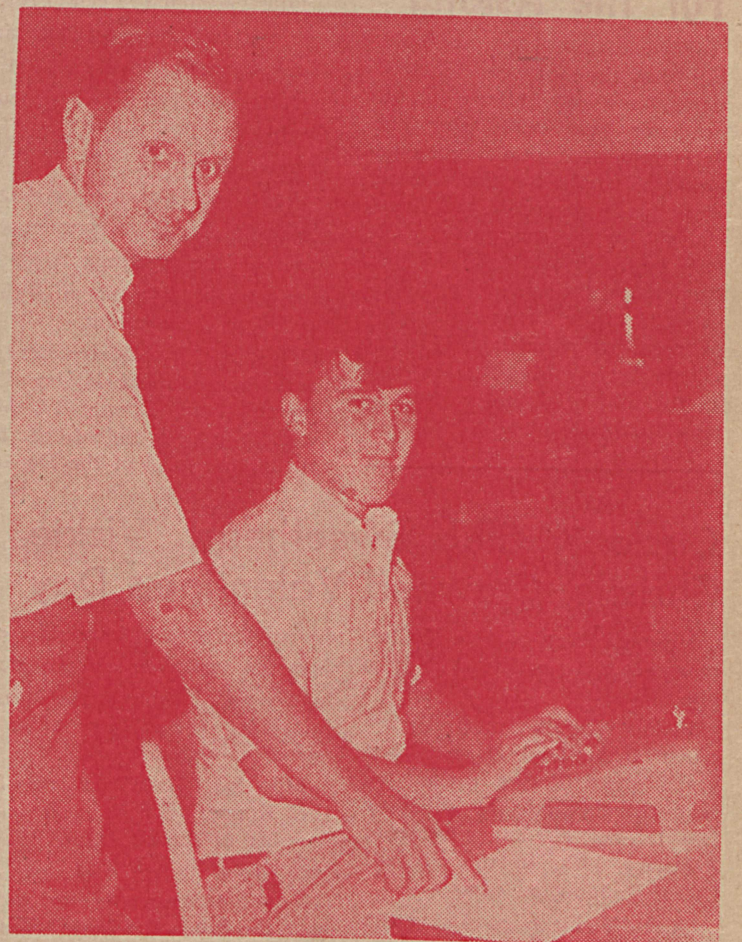
Scott Johnson, High school teacher from Ocean City, New Jersey, probably scratches his head in bewilderment each time he mails another bundle of computer cards to Montana Tech.

Although, according to John McCaslin, Tech's computer center director, there must be 100 computers within 50 miles of Ocean City High School, Johnson can find no one to correct his students' cards. So they all are being sent to Butte, Montana.

Johnson says, "There probably are literally thousands of computers around where I'm from, but they're all in refined use, so no one can find it feasible to accommodate us."

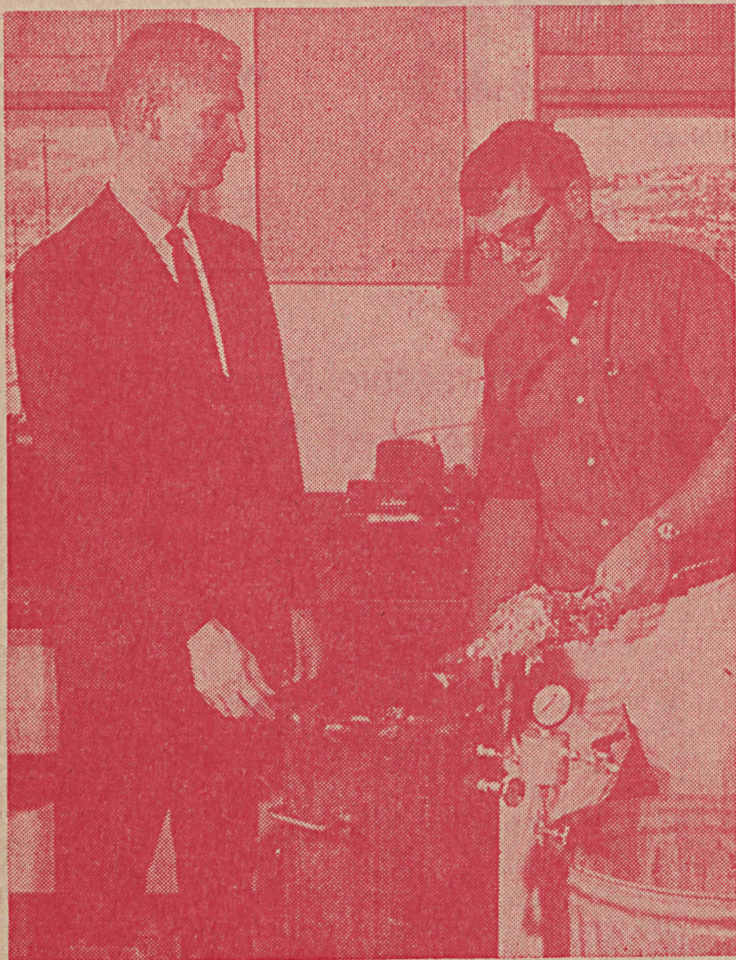
The whole situation began last summer when Johnson picked up a National Science Foundation bulletin and read about the Computer Conference to be held in August on the campus of Montana Tech.

(Cont. P. 6, Col. 1)



A rather peculiar problem is being confronted by Scott Johnson, standing, physics and math teacher from Ocean City High School, Ocean City, N. J. Although the high school is in the midst of probably thousands of computers, Johnson has been unable to find anyone to run his students' computer cards, and since the school has no computer of its own. Consequently, each week a pack of cards from Ocean City arrives at the Montana Tech Computer Center for processing. Johnson is shown here with one of his high school students in New Jersey, Thomas McFarland.





Dr. Herbert G. Warren, head, Department of Petroleum Engineering, and one of his research assistants, Kendell Tholstrom, graduate student in petroleum from Anaconda, are studying the feasibility of producing synthetic gas by subsurface disposal of refuse. Here they are shown loading mulched garbage into one of their temperature and pressure regulated tanks.

## What To Do With Leftovers When You've Run Out of Handi Wrap

A major concern of the 1970's is air pollution. It has been said that efforts of America's college and university students will be directed in a large part toward improving this situation.

Montana Tech already has become involved with studying pollution contamination. Dr. Herbert G. Warren, head, Department of Petroleum Engineering, is directing a study of the feasibility of production of synthetic gas by subsurface disposal of urban refuse. The project is being financed by a \$57,455 grant from the U. S. Bureau of Mines.

Working with Dr. Warren on the project are Dr. William G. Halbert, assistant professor of petroleum engineering, and two graduate students in petroleum engineering: Arun Joshi, Bombay, India, and Kendell Tholstrom, Anaconda.

According to Dr. Warren, their objective is to find out what evolves from the decomposition of garbage and in what volumes. All of the refuse being used in their tests is from the dormitory and is food leftovers only.

So far only a preliminary investigation has been run. These first tests involve five drum-like

containers which are filled with garbage and in which controls are made on temperature and pressure.

The tanks are helping to tell whether or not mulched garbage can be buried beneath the ground. Will it create enough pressure to form gas, and if so at which levels will this process successfully take place?

As the gas is formed in a tank, it is allowed to escape through a tube. A hypodermic needle sample of the gas then can be taken, which is in turn injected into a chromatograph to measure the composition of the gas.

Dr. Warren says the preliminary results are as follows:

1. Gases given off have raised the pressure in one of the containers up to 47 pounds.
2. Another sample showed that about three and one-half cubic feet of gas have been produced in one month from about one-half cubic foot of garbage.
3. Composition of the gas evolved is principally carbon dioxide with an unidentified trace of another gas.

Tholstrom explains, "We've just put the garbage in the tanks and haven't done a thing to it but let it take its own course."

Joshi says library research indicates the possibility of the production of hydrocarbons with the addition of micro-organisms in the absence of oxygen. Plans are being formulated to investigate this theory in line with the study.

After the entire project has been completed, a report of the results, along with suggestions for use of the gas or gases, will be sent to the U. S. Bureau of Mines. There a decision will be made as to whether or not suitable uses are available for the gas evolved from refuse and whether or not to continue research.

Dr. Warren says, "We hope to reduce the pollution problem considerably with this project. We want to be able to make use of the waste from the kitchen rather than tossing it into a landfill dump, for instance, and causing more pollution."

Wages of sin vary with the sinner.

## \$2,000 In Grants

Montana Tech has recently received grants from Shell Oil and Marathon Oil Companies totaling \$2,000.00.

Shell Oil has provided Montana Tech with two grants.

The first is a \$500.00 grant for "general faculty development." It will be administered by Dr. Kenneth McLeod, dean of academic affairs. The grant will be available to faculty members for such expenditures as research, travel in connection with their teaching, meetings in their field, and publications.

The second \$500.00 grant has gone to the Department of Petroleum Engineering and is being administered by Dr. Herbert G. Warren, head of the department. It will be presented as a scholarship to a petroleum student later this year.

A \$1,000.00 unrestricted grant from Marathon Oil Company has been awarded to the Department of Petroleum Engineering at Montana Tech.

Reception of the grant was announced by Dr. Herbert G. Warren.

The grant has been awarded this year in addition to the four \$250.00 scholarships given annually by Marathon Oil to petroleum engineering students attending Tech.

## Financial Aid For the Asking

Once again we are approaching that time of year when financial aid applications for the academic year 1969-70 are due. It is requested that anyone desiring to apply for the summer work study program and financial aid for the coming academic year apply before April 1, 1970. Remember, the earlier the application date, the better the chance of receiving financial aid, provided you qualify. Please call at the Financial Aid Office to pick up applications.

## Tech Professors Travel South

Four Montana Tech Professors attended the annual meeting of the American Institute of Mining, Metallurgical and Petroleum Engineers, February 12-20, in Denver, Colorado.

Floyd C. Bossard, assistant professor of mining, presented a paper at the meeting. Also, he attended the hydrometallurgical session at the meeting.

William J. Van Matre, head of the Department of Mining Engineering, and Donald W. McGlashan, vice-president of the college, and head of the Department of Mineral Dressing, attended a symposium on bio-extractive mining at the meeting.

Herbert C. Warren, head of the Department of Petroleum Engineering, attended a Career Guidance Committee meeting of the Society of Petroleum Engineers and the 1970 S.P.E. Board of Directors Meeting.

Two more Montana Tech professors attended meetings this month. The meetings of the Board of Directors, the Executive Council and the Natural Resources Council of the Federation of Rocky Mountain States were held in Albuquerque, New Mexico from February 10-12.

Attending the meetings were Dr. S. L. Groff, chief of the Ground Water and Fuels Division, Montana Bureau of Mines and Geology, and Dr. Kenneth N. McLeod, dean of academic affairs and head of the Department of Chemistry.

## Circle K Club Sweetheart, Vickie Christie, Crowned Valentine's Day

Montana Tech's Circle K Club crowned its sweetheart Valentine's Day.

Vickie Christie received her crown from Toni Driscoll, last year's queen, during the annual semi-formal Circle K Valentine's Day Dance. The dance was held February 14th, in the Student Union Building on campus.

Queen Vickie reigned over the evening's festivities and this spring will compete for honors as state sweetheart during the Circle K convention in Billings.

Her princesses are Diane Sarti and Linda Wilson. All the young women are from Butte and are freshmen at Montana Tech.

Miss Christie is president of the freshman class and is a member

of the speech team. She enjoys the outdoors as is evidenced by her membership in the Mountaineering Club. Her major is speech communications.

Miss Sarti is drill mistress for the Kopper Kadets and is a member of the ski team. She is majoring in linguistics.

Becoming an elementary teacher is the future for Miss Wilson. She is president of the Kopper Kadets.

All three women are graduates of Butte High School.

The queen and her princesses were the honored guests at a Circle K dinner before the dance.

Leigh Freeman, Billings, is Circle K Club president.

## Mineral Resources Conservation Petroleum Course To Be Offered

According to Dr. Kenneth McLeod, dean of academic affairs at the college, a course for Montana secondary and elementary school teachers entitled "Mineral Resources Conservation Petroleum" will be offered, sponsored jointly by Montana Tech and the American Petroleum Association. It will be held at the fourth annual field and workshop course from June 8-July 2 on the campus of Eastern Montana College in Billings.

A maximum of 40 students will be able to enroll. The four semester credits earned will be awarded by Montana Tech and will qualify the student for re-

(Cont. P. 8, Col. 2)

## Stolz Elected Council President

Newly elected president of the Montana Technical Council is Gustav Stolz, Jr., dean of student affairs at Montana Tech.

He is one of four representatives of the Montana Society of Engineers on the Tech Council and will serve as its president for a two-year term.

The council is an organization of engineering, architectural and land surveying societies in Montana, a council unique to Montana. One of its functions is to coordinate the work of these and related professional societies. It also may act as an advisory body to public agencies and officials where public health, safety or human relationships are involved with these professions. The council has been concerned with such things as legislation, statutes of limitations and building codes.

Other officers of the Montana Technical Council are: Vice President Bob Lund, Great Falls; Society of Architects; Secretary Tommy Thomas, Great Falls; Consulting Engineering Council of Montana; and Directors George Herman, Bozeman; American Society of Civil Engineering; Ed Hakert, Billings; Billings Architectural Society; and Stan Skousen, Missoula, Society of Registered Land Surveyors.

This weekend a joint engineers meeting will be held in Helena. According to Stolz, some topics pertaining to the Technical Council's activities probably will be discussed.



## Gear Editor Pays Visit to Theta Tau

The editor of Gear, Theta Tau engineering fraternity's national magazine, was in Butte recently.

Garn Hatch has been visiting the Montana Tech chapter of Theta Tau and collecting ideas for the publication.

According to Bob Westermarck, vice regent of the fraternity, Hatch is attempting to encourage more involvement in the engineering aspects of our society.

Also this week Theta Tau elected its 1970-71 officers. They are: Regent Bruce Williams, junior, petroleum engineering, Butte; Vice Regent Bob Westermarck, junior, petroleum engineering, Great Falls; Scribe Jim Warner, senior, engineering science, Lauriel; Treasurer Rick Dale, junior, mining engineering, Twin Bridges; Corresponding Secretary Curt Dahlgaard, senior, petroleum engineering, Westby; Marshall Rick Schmidt, junior, engineering science, Anaconda; Inner Guard Bob Lambeth, senior, engineering science, Polson, and outer Guard Jeff Russell, junior, geological engineering, Flin Flon, Manitoba, Canada. Immediate past regent is Roger Miller, senior, mining engineering, Lima, Peru.

Theta Tau accepts members throughout the year. This spring about seven pledges will be initiated.

To be eligible for membership a student must be an engineering major who has completed at least two semesters of physics.

Adolescence: The age when a girl's voice changes from no to yes.

## Squad Speaks Up And Is Heard

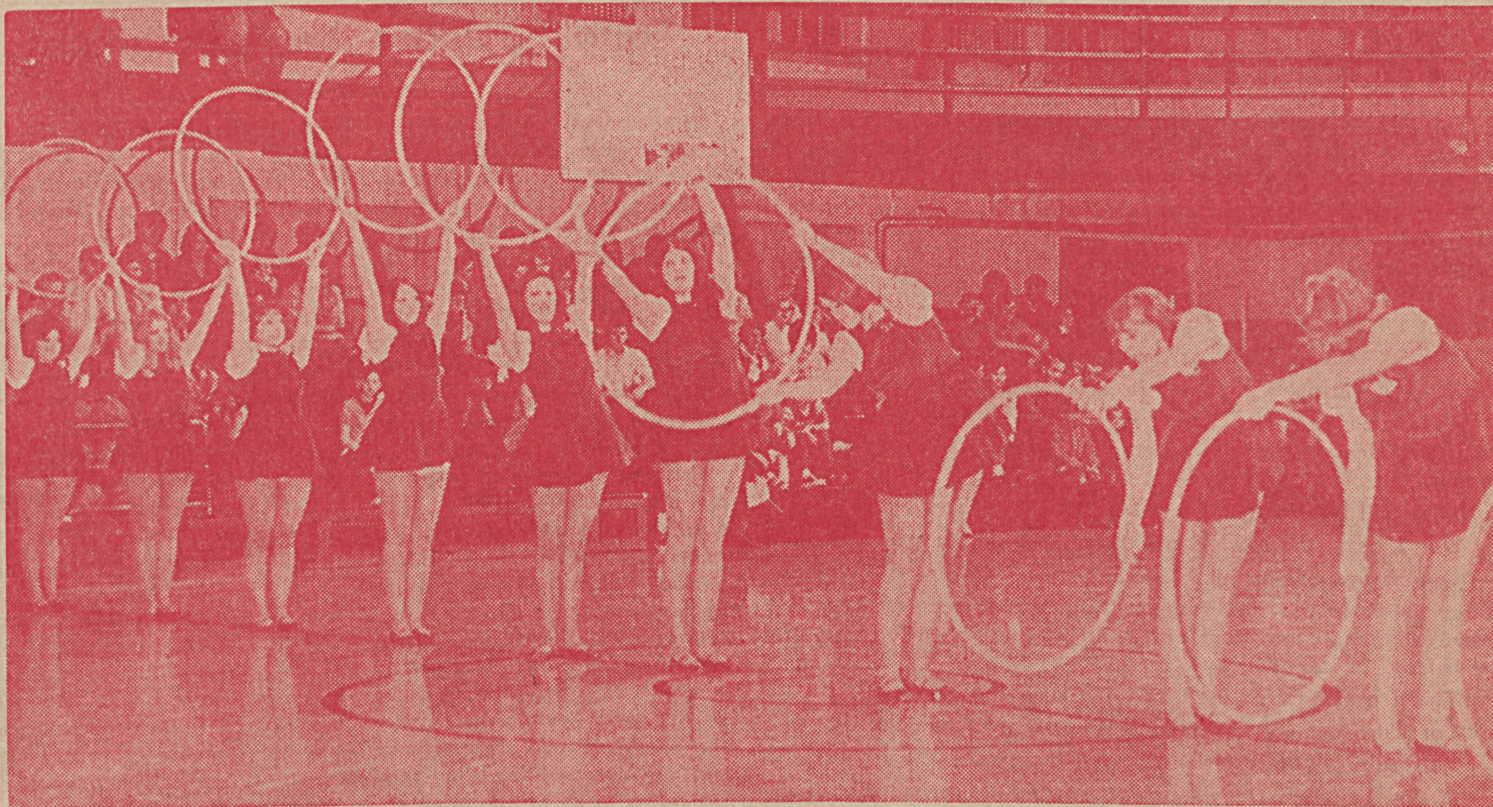
Vickie Christie and Ed Shea won four out of five debates, placing them in the semi-finals of the Rocky Mountain College all-novice invitational speech meet. The meet was held over the Valentine week end. Vickie and Ed, both of Butte, argued the debate issue: "Resolved that: Federal Government Should Grant Annually a Percentage of Its Income Tax Revenue to the State Governments."

Miss Christie also tied for third place with Wayne O'Brien in the expository speaking division.

Another debate team consisting of John Grace and Wayne O'Brien, both of Butte, won two out of five debates.

Earlier this month, Ed Shea, the only entry from Tech, competed in the finals of the men's literary division at the State Intercollegiate Speech meet.

Director and faculty advisor for Montana Tech's speech team is Mrs. Lucile Alt.



## KOPPER KADETS CAPTURE AUDIENCE WITH HALF-TIME PERFORMANCES

The Montana Tech Kopper Kadets drill team, led by Miss Dianne Sarti and moderated by Mrs. Sarsfield, was newly organized last fall, and consists of thirteen freshman girls. The group was formed to present half time entertainment at the Montana Tech games.

So far this year the team has performed at three games: the Bobcat-Grizzly freshman basketball game at the Civic Center January 23, the Montana Tech-Eastern game at Tech's gymnasium January 24, and the Montana Tech-Rocky game February

13, also at Tech's gymnasium.

Their performances featured drill, march and dance routines done to many types of music.

The Kopper Kadets' last appearance for this year was at the half time of the Montana Tech-Northern game Saturday

night, February 21 at Tech.

Besides performing at half times, the Kopper Kadets helped with the Chamber of Commerce dinner at the Finlen Hotel and they will be hostesses for Montana Tech's E-Days February 28 and March 1.

Members of the drill team are: Jackie Geach, Judy David, Jo Ann Quinn, Nancy Noyd, Linda Wilson, Judy Robertson, Sharon Hills, Bonnie Nicholls, Virgie Smith, Marilyn Emerson, Nancy Leskovar, Claudia Nelson, and Dianne Sarti.

The Kopper Kadets would like to thank the student body for the support they have given them during their performances.

## Circle K Plans Convention

The Circle K Club of Eastern Montana College and Rocky Mountain College are hosting the Montana District Convention in Billings April 10, 11 and 12. The facilities of the Holiday Inn have been reserved for the three-day affair and the Tech Club has been assisting the Billings Clubs

in several different areas.

Plans for Johnny Cash fell through, but big name entertainment is still promised. The convention committee is attempting to book either the Lettermen or Eddy Arnold.

As in the past three years, the Tech Circle K Club will sponsor its Sweetheart in the Miss Montana Circle K pageant. Vickie Christie will represent Tech.

The three-day confab will also have a full schedule of business. State-wide and national problems will be discussed with hopes to better Circle K.

Planned cost of the entire convention is to be under twenty dollars.

## You Suggest It He'll Discuss It

A new course, Physics 421-Selected Topic, is being offered by Dr. Michael Doman of the Physics Department. The three credit class is held every Monday and Wednesday from 5 o'clock until 6:15.

Although it is listed as a physics course, it is primarily intended for the general student. The course is concerned with the application of science to our world and such problems as the effect of pollution on the human body will be discussed. Emphasis will be upon the understanding of principles and not the manipulation of mathematical symbols.

A girl so modest she pulls down the shade when she changes her mind.

## AIME Engineering Achievement Award Goes To Anaconda's Vincent D. Perry

The American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME) presented its 1970 Engineering Award to Vincent Denis Perry, Director and Vice President-Geology, of the Anaconda Company, at the Institute's Annual Meeting, February 15-19, 1970 in Denver, Colorado. The award was made at the Annual Banquet on February 18, 1970 at the Denver Hilton Hotel.

Mr. Perry's Engineering Achievement reads: "In recognition of his profound interest in furthering geological understanding of mineral deposits and of his significant contributions to the discovery of numerous important mineral deposits in several areas of the world."

Mr. Perry's career with the Anaconda Company spans more than 45 years, during which time he has been responsible for the development of many important mines and geological techniques. Under his leadership, Anaconda

has projected its capability to produce copper at the rate of one million tons per year in the early 1970's, a 50% increase over five years.

Mr. Perry holds a B.S. in mining engineering from the University of California at Berkeley, an M.S. in mining geology from Columbia University and a doctor of science in geological engineering from Montana Tech.



Happy  
Birthday  
Robbie

## Peak Named For Mite Researcher

An Antarctic mountain has been named after Dr. Elmer E. Gless, head, Department of Biological Science, Montana Tech.

Gless Peak is about 9,000 feet high and stands in the area of Antarctic known as North Victoria Land. The mountain is within 200 miles of Hallett Station on the Ross Sea where Dr. Gless spent three Antarctic summers researching soil dwelling mites and insects.

Gless explained that the U. S. Board of Geographical Names under the U. S. Army Topographic Command goes through a roster of persons who have spent one or more research seasons on the continent of Antarctica and as the area is mapped puts their names to mountains, glaciers, islands, bays, ice shelves and so on.

Gless is not the first member of his family to have an unusual namesake. While in the Antarctic, he discovered a new species of mite, which he named after his wife. It is the *Protereunetes paulinae*.



## Fable for the Industry?

This "Fable for Modern Times" is the pleasure of some circles, the bane of others. It comes from several sources, but the author is unknown. But pleasure or pain, you decide.

Once upon a time, there was a little red hen who scratched about and uncovered some grains of wheat. She called her barnyard neighbors and said, "If we work together and plant this wheat, we will have some bread to eat. Who will help me?"

"Not I," said the cow.

"Not I," said the duck, as did the goose.

"Then I will plant it," the little red hen said—and she did.

Much later, when the wheat started to grow, the little red hen again was denied help. At length, the wheat was ready for harvesting.

"Who will help me reap the wheat?" the little red hen asked.

"Not I," said the cow. Same thing from the duck and goose.

"Out of my classification," said the pig.

So the little red hen harvested the wheat herself. Then she ground the wheat into flour. Now, at last, she asked for help with the baking.

"That's overtime for me," said the cow.

"I'm a dropout and never learned how," said the duck.

"I'd lose my welfare benefits," said the pig.

"If I'm the only one helping, that would be discrimination," said the goose. "No, thanks."

So the little red hen baked the bread and showed her neighbors the five loaves.

"I want some," said the cow, as did the duck.

"I want my share," said the goose.

"No soap," said the little red hen. "I'll just take it easy for a while and enjoy my bread."

"Excess profits!" cried the cow.

"Capitalistic leech!" cried the duck.

"Company fink," shouted the goose, while the pig demanded equal rights.

Pretty soon the farmer came to investigate the commotion. "You must not be greedy," he told the hen. "Look at the oppressed cow, the disadvantaged duck, the underprivileged pig, the less fortunate goose. You are making second-class citizens of them."

"But I earned the bread," the little red hen said.

"Exactly" the farmer said. "That is the free enterprise system. Anybody can earn as much as he wants. In other barnyards, you would have to give all five loaves to the farmer. Here, you keep one and give four loaves to your suffering neighbors."

And they all lived happily ever after.

Including the little red hen, whose neighbors never ceased to wonder why in the world she never raised any more wheat or baked any more bread.

(World Oil, Jan., 1970)

## HOW TO GET A 4D DRAFT CLASSIFICATION

"You may enjoy a tax free existence, discounts in travel, entertainment, merchandise, and even a 4D draft classification when you become a 'MAIL ORDER MINISTER,'" tells the Rt. Rev. Richard Kerekes. He continues to say, "UNIVERSAL FREE LIFE CHURCH of 1503 S. State Rd. 7, Hollywood, Florida will ordain any man, woman, or child, just for the asking, and a free will donation. Once you are a Minister, you may request the Church to counsel you on your rights under the Selective Service Act, showing you how to proceed in the obtainment of a 4D classification." Rev. Dr. Art Fox, the Church head, says, "The Minister's credentials and license that we send to people, are LEGAL in all 50 states and most foreign countries. One can perform marriages, funerals, baptism, or any of the same services performed by the Minister of any church. We also, upon request, will provide a charter for a person to start his own church.

UFLC issues Doctor of Divinity degrees for a free will offering of \$20." He also says, "We have no doctrine of our own. We believe everyone has a right to his own convictions. If you want to smoke pot and make love, it's okay with us. We do not judge people. We believe in personal religious freedom rather than conforming to some institution's ideas." Rev. Dr. Fox adds, "If you are coming to Fort Lauderdale during Spring break, the Church will have a canteen trailer at the beach with free sandwiches, coffee and donuts for students, plus aspirins, band-aids, etc. We will have a nationwide Watts line available. Students with problems may call anywhere in the country for assistance. We'll direct students to two local garages where auto repairs may be handled at fair and honest prices quickly." Fox tells, "We will also be co-ordinating rides for students that need them. People leaving Lauderdale with extra room in their car and stu-

dents that need rides will register at the trailer." Fox adds, "If you are in Lauderdale and need help of any kind, come by the church trailer. For those unfortunate students that make the local jail; we will be at the jail with free toothbrushes, combs, cigarettes, etc., for all that need them, plus any other help we can offer." The Rev. Dr. Fox says, "The UNIVERSAL FREE LIFE CHURCH is a non-structured faith open to all. We are well on our way to having a million ministers within two years." Rt. Rev. Kerekes, Church Director of Education adds, "If you want to be a Minister in the Army, join us, and if you want to be a Minister, NOT in the Army, join us! Ministers CAN get a 4D draft classification, although in some instances you may have to fight for it."

REV. D. FOX,  
Secretary  
Universal Free Life  
Church

## Equality Under the Constitution

by Dave Kneebone

The students of Tech, being idealistic and forward looking young people, do not as such favor or support the dominance of one faction over another. There is no organization on campus that can be called H. Rap Brown or Robert Sheldon Fan Clubs. Responsible Tech students practice and believe in equality. Even the engineering segment does not require a poll tax before allowing general students the vote.

Recently a formerly responsible organization began a campaign for special privileges. Its leadership believes that since 22% of the student body belongs to its organization, it deserves special representation on the student council. Bullfeathers! Such a scheme would make even the U. S. Supreme Court wonder why the people of our country have suddenly reversed and submerged the rights of all people in an enveloping cloud of sex.

The A.W.S. does not need special representation in Tech's student government. First of all,

such representation defies all notions of equality as set forth in the compacts by which the United States governs. Secondly, it shows that woman is really attempting to become the dominant person in American life, both politically and sexually. Pamp-ering by the male due to the womanless climate of early American life has led the females to believe that they are something special and inherently deserve special privileges.

Let the coeds start their own political party and obtain an office on their qualification—not their sex. After all, coeds have won elections around here before and they didn't throw their sex around, not that they didn't have any excess to play with. Besides, sex can be put to much better use than buying office, . . . I think. If we let them get their special office, we'll be henpecked before any of us males consider marriage. That will really throw a monkey wrench in the one major goal of all coeds!

## The American Driver

by "Charley"

The roads of America were once only dirt trails where our grandparents would settle behind old Dobbin for a long, lazy country ride on a beautiful Sunday afternoon. Today's turnpikes can no longer be utilized for pleasure and relaxation: they could be described as "pathways to instant death." No longer do travelers jaunt along at a leisurely pace merely enjoying the scenery and their companions. We must speed, speed, SPEED, so that

the car behind doesn't pass us by.

The drivers of today are a race unto themselves. Each of us hold the following traits: courage (perhaps only stupidity); knowledge of all traffic regulations; and, of course, absolutely no manners at all. This race of drivers can be divided into two distinct classes. The first and most important division is that which has come to be known as "Woman Drivers." We, who have earned the name of "Woman Driver," possess nerves of steel and brains of straw. We fearlessly dart in and out of the traffic lanes with the same thought in every mind—"He has brakes; let him use them." Getting sworn at or shouted at doesn't really faze us. We have a secret weapon which never fails to bring a man to his knees—we know how to weep. Most of the males of our country can be classified as "Sunday Drivers." The members of this class have a wide awake expression on their faces as though they are staring intently at something. The problem is that this "something" usually is not the street. This "something" is most likely a well-stacked blonde or brunette. When they finally decide to take a quick peek at the road, they suddenly realize they are about to run over a little old grandmother who can barely totter across the intersection. They then begin grumbling about the idiotic pedestrians who never watch where they are walking. The real irony of the situation is that when pedestrians, our conscientious male friends spend most of their walking time shouting about

## The World Waits: Will Editor Give Up?

by Douglas R. Davies

For nearly a year now, the Crimson Crusader has lain dormant. He can no longer do so. I have watched, and commanded, both publicly and privately, your efforts. When I refer to your efforts I mean your endeavor to wake up, or disturb a generally dead group of people.

There is only one comment which I can make. Give up! One or two people alone cannot disturb nearly a thousand if the majority of that number either cannot or will not think.

eYs, give up! You have fought the good fight and fought it well, but you are fighting against a faceless enemy. You are fighting against a virus or an infection called apathy and there is only one cure for this sickness. That cure comes in many forms and is called by many names. Concern, interest, and awareness are cures. But, they must all come from within the infected person.

You have tried to inject some of this cure into some of these sick, apathetic people, and, in a few isolated instances you have been successful. But, unfortunately, a few minor victories do not mean victory in the overall war, and this you are losing.

However, I have no fear that you will give up. Moreover you cannot give up! These people, these sick people, will someday be the rulers and decision makers of our country. For this reason alone you must not give up.

Good luck!

## NEXT ISSUE

MARCH 18

## Deadline For Articles

MARCH 11

A little pain, a little pay, A Lot of FUN—Applications will soon be considered for next year's editor.

those "damn Sunday drivers."

The previously mentioned Sunday drives in the country have evolved into weekly expeditions to the neighborhood car wash. Each of us spends hours washing our car, cleaning the dashboards, and vacuuming the floors. Wouldn't it be splendid if we used half of that time to clear the cob webs of prejudice from our minds? Or, perhaps, to remove the fog covering our eyes so we could see the beauty and wonder of the world around us? Or even much more important if we could cleanse our hearts of all hatred in order to return purity to our souls? What a peaceful world we would inhabit!



Worth Reading (Even If You 'Already Know Everything') Department

# THE ILLUSION OF VIETNAMIZATION

Statement by  
Senator George McGovern  
(D.-S. D.)

before  
Senate Committee on  
Foreign Affairs  
Washington, D. C.

February 4, 1970

The resolution that I have submitted, with the co-sponsorship of Senators Church, Cranston, Goodell, Hughes, McCarthy, Moss, Nelson, Ribicoff, and Young of Ohio, calls for the withdrawal from Vietnam of all U. S. forces—the pace to be limited only by these three considerations: the safety of our troops, the mutual release of prisoners of war, and arrangements for asylum in friendly countries for and Vietnamese who might feel endangered by our disengagement.

This process of orderly withdrawal could be completed, I believe, in less than a year's time. (I have recently been advised by the Department of Defense that the 484,000 men we now have in Vietnam could be transported to the United States at a total cost of \$144,519,621.

Such a policy of purposeful disengagement is the only appropriate response to the blunt truth that there will be no resolution of the war so long as we cling to the Thieu-Ky regime. That government has no dependable political base other than the American military presence, and it will never be accepted either by its challengers in South Vietnam or in Hanoi. We can continue to pour our blood and substance into a never-ending effort to support the Saigon hierarchy, or we can have peace, but we cannot have both General Thieu and an end to the war.

Our continued military embrace of the Saigon regime is the major barrier both to peace in Southeast Asia and to the healing of

our own society. It assures that the South Vietnamese generals will take no action to build a truly representative government which can either compete with the NLF or negotiate a settlement of the war. It deadlocks the Paris negotiations and prevents the scheduling of serious discussions on the release and exchange of prisoners of war. It diverts our energies and resources from critical domestic needs. It sends young Americans to be maimed or killed in a war that we cannot win and that will not end so long as our forces are there in support of General Thieu.

I have long believed that there can be no settlement of the Vietnam struggle until some kind of provisional coalition government assumes control in Saigon. But this is precisely what General Thieu will never consider. After the Midway Conference last June, he said: "I solemnly declare that there will be no coalition government, no peace cabinet, no transitional government, not even a reconciliatory government."

Let us not kid ourselves. That is a clear prescription for an endless war and changing its name to "Vietnamization" still leaves us tied to a regime that cannot successfully wage war or make peace.

Yet, there is wide currency to the view that America's course in Southeast Asia is no longer an issue; that the policy of "Vietnamization" promises an early end to hostilities. That is a false hope emphatically contradicted by the tragic lessons of the past decade.

As I understand the proposal, "Vietnamization" directs the withdrawal of American troops only as the Saigon armed forces demonstrate their ability to take over the war. Yet, a preponderance of evidence indicates that the Vietnamese people do not feel the Saigon regime is worth fighting for. Without local sup-

port, "Vietnamization" becomes a plan for the permanent deployment of American combat troops, and not a strategy for disengagement. The President has created a fourth branch of the American government, by giving Saigon a veto over American foreign policy.

If we follow our present policy in Vietnam, there will still be an American army of 250 or 300 thousand men in Southeast Asia fifteen or twenty years hence. Meanwhile, American firepower and bombardment will have killed more than tens of thousands of Vietnamese to save a corrupt, unrepresentative regime in Saigon. Any military escalation by Hanoi or the Vietcong would pose a challenge to American forces which would require heavier American military action and, therefore, heavier American casualties; or we would be faced with the possibility of a costly, forced withdrawal.

The "Vietnamization" policy is based on the same false premises which have doomed to failure our previous efforts in Vietnam. It assumes that the Thieu-Ky regime is a legitimate, popularly backed government standing for freedom and self-determination. Actually, the Saigon regime is an oppressive dictatorship which jails critics and blocks the development of a broadly based government.

The Thieu-Ky regime is no closer to American ideals than its challenger—the National Liberation Front. Indeed, self-determination and independence are probably far stronger among the Vietnamese guerrillas and their supporters than within the Saigon government camp. I have never felt that American interests and ideals were represented by the Saigon generals or their corrupt predecessors. We should cease our embrace of this regime now and stop telling the American people that it stands for freedom.

I want to make clear that I am opposed to both the principle and the practice of the policy of Vietnamization. I am opposed to the policy whether it "works" by the standards of its proponents, or does not "work." I oppose as immoral and self-defeating a policy which gives either American arms or American blood to perpetuate a corrupt and unrepresentative foreign regime. It is not in the interest of either the American or the Vietnamese people to maintain such a government. I find it morally and politically repugnant for us to create a client group of Vietnamese generals in Saigon and then give them our murderous military technology to turn against their own people. Vietnamization is basically an effort to tranquilize the conscience of the Ameri-

can people while our government wages a cruel and needless war by proxy.

An enlightened American foreign policy would cease trying to dictate the outcome of an essentially local struggle involving various groups of Vietnamese. If we are concerned about a future threat to Southeast Asia from China, let us have the common sense to recognize that a strong, independent regime, even though organized by the National Liberation Front or Hanoi, would provide a more dependable barrier to Chinese imperialism than the weak puppet regime we have kept in power at the cost of 40,000 American lives and hundreds of thousands of Vietnamese lives.

Even if we could remove most of our forces from Vietnam, how could we justify before God and man the use of our massive firepower to continue a slaughter that serves neither our interest nor the interest of the Vietnamese?

The policy of Vietnamization is a political hoax designed to screen from the American people the bankruptcy of a needless military involvement in the affairs of the Vietnamese people.

Instead of Vietnamizing the war, let us encourage the Vietnamization of the government in South Vietnam. We can do that by removing the embrace that now prevents other political groups from assuming a leadership role in Saigon that are capable of expressing the desire for peace of the Vietnamese people.

I strongly support the thrust of the pending resolutions which call for our early disengagement from this struggle.

Perhaps the most ironic aspect of the entire matter is this: our leaders seem more sensitive to the wishes of a corrupt military junta in Saigon than to the concerns of this Committee and of those Americans who have been trying for years to call our nation away from the blunders of Vietnam. My major concern about the present Administration is that by the skillful use of national television and the politics of manipulation, it has isolated and intimidated American critics of the war while identifying American interests with a regime in Saigon that is despised by its own people.

Those of us who have opposed our Vietnam involvement under the previous administration, as under the present administration, will have to admit that the Nixon administration has temporarily carried American public opinion with them. Our task as dissenters is more difficult now, but is all the more important. The day will surely come when the American people will realize that they have been misled by the skillful manipulation of the administration.

I have recently experienced one minor aspect of the strategy of manipulation and intimidation. The Pentagon has dispatched one of its officers, a Major Rowe, to attack me and other Senators including Senators Mansfield and Fulbright, for criticizing the Vietnam policy. After a visit with the President at the White House, the Major undertook a series of radio and television programs in which he has questioned my loyalty to the American flag. News accounts now indicate that he has gone back to Vietnam to gather material for a book in which he intends to extend his attacks on Senate critics of the Vietnam policy.

Although I question the propriety of an Army officer using his post to attack the foreign policy views of elected representatives, what disturbs me even more is the assumption that anyone who disagrees with him or the President is disloyal to the American flag. Indeed, the Major and his political sponsors in the Pentagon and elsewhere are guilty of unpatriotic and un-American actions when they engage in these "below-the-belt" tactics against their fellow Americans.

If the Pentagon and the White House assumes that by falling into the hands of the enemy who held him captive for several years, Major Rowe or any other military officer earned the right to speak with unchallenged wisdom about American foreign policy, that is their prerogative. But to suggest that the Major's imprisonment entitles him to question the patriotism of those who have a different view of American policy makes one question whether either he or his political sponsors know what American democracy is all about. Perhaps it explains why they feel more compatible with General Thieu's dictatorship than they do with America's traditions of dissent and debate.

But despite such tactics and despite appeals to public opinion polls seeking to register the views of an alleged "silent majority," there is little hope for an end to the Vietnam war except through the kind of critical examination of policy which forums like this provide. Had it not been for a courageous and thoughtful minority, including the Chairman and some of the members of this Committee, we would doubtless be escalating toward World War III in Southeast Asia. Instead, we have sufficiently exposed the folly of Vietnam so that the debate now centers on how to get out of this regrettable venture.

So let no one assume either that our leaders always know best, or that silence in the face of madness is a public virtue.

## AMPLIFIER STAFF

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Opinions expressed are those of the editor or authors of signed articles and not necessarily those of the college or student body unless the article so stipulates.

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## COMPUTER

(Cont. from Page 1)

The conference, sponsored by N.S.F. under a \$7,495 grant and directed by McCaslin, was for high school teachers from Montana, Northern Idaho and Wyoming. Johnson, who is supervisor of the science and math departments and teaches a course in physics, was interested since, as he explains, several new physics courses have computer programming in them and many of his seniors who go on to college in physics have an opportunity to use computers in their studies. His local school district agreed the course would be beneficial, so it paid his way.

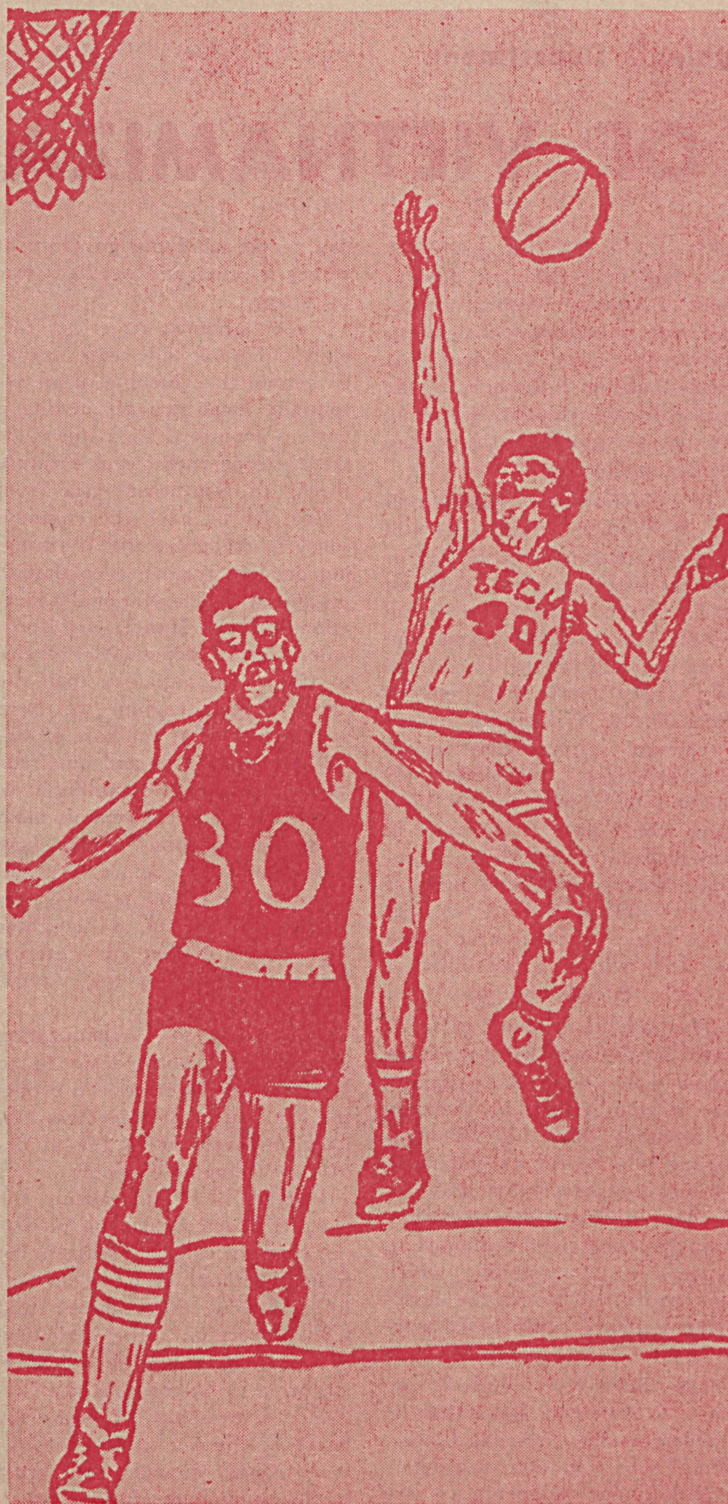
Most of the schools whose teachers participate have no computers of their own, so Tech's Computer Center volunteers to process their cards throughout the year free of charge.

About once a week Johnson sends the punched cards off to Montana Tech where they are processed and returned to Ocean City High School for correction. Offhand, Johnson does not know the exact number of cards he has airmailed to Tech, but he says, "They cost about 10 cents an ounce and I think I've sent about 60 ounces a week."

Johnson goes on to say that he did not know a thing about programming a computer before he came to the conference. Now, besides teaching programming in his physics class, Johnson has a special class just for programming, which he teaches after his regular class day. "We wouldn't have been able to do a thing if it hadn't been for that conference," Johnson emphasizes. "So far it has been a great benefit to my students and to me."

This was the second N.S.F. sponsored computer conference held at Tech. The 1968 session, McCaslin says, resulted in about 700-800 high school programs being run. Tech is currently running programs for these teachers who attended the 1969 session.

Equipment in the center includes a Model H, IBM 1620 computer which can store 60,000 digits, two disk drives each with 2 million storage, an IBM 407 printer, three key punches, a sorter and a verifier.



—Sports and special effects photos by Mike Parent



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## Recommendations For Crowd Control

In regard to student sportsmanship at varsity games, a set of rules have been drawn up. Someone might ask, "Why do we need such rules?" I'll tell you. In our last varsity game against Western Montana in our own gym, there were several instances of very poor sportsmanship—sportsmanship not worthy of Montana Tech students.

—George Polich

1. By conference action it was determined that any basketball player ejected from the basketball game for fighting would be suspended from participating in the next two conference basketball games. If such game happens to be the last one of the season, then the punishment would not carry over to the succeeding year except that if this occurred again, then the punishment would be doubled.
2. Any non-participating student should be prosecuted by the student's school to the fullest extent of their power. If the person is not a student at either institution participating, he shall be banned from games and prosecuted through civil courts.
3. Yells of an inflammatory nature, that is with respect to your opponent's capabilities are banned.
4. The official working a ball game must file a report following any altercation. It is suggested that non-involved schools be appointed to investigate and recommend conference action.
5. Any signs of a negative nature shall be banned.
6. The rules for bench and floor conduct shall be strictly enforced.
7. There shall be adequate police protection.
8. Before a particularly tense game the student governing body should attempt to avoid problems and communicate with their counterparts at the other institution.
9. Special days, such as GO WESTERN DAYS, shall not be held on league game days.
10. The home school shall do all in its power to prevent anyone entering who is in an intoxicated state.
11. Officials shall be protected when leaving the court by either the local police or some athletes.
12. It is recommended that the schools have some highly respected group, such as the lettermen, seated in the front row of the bleachers to attempt to restrain the crowd.
13. Any school which plans to bring any student delegation with them to another school shall notify the home school at least one week in advance if they wish any kind of special seating arrangements which are available.
14. If competitive cheering begins the officials shall be instructed to stop the game and go to the PA and announce that it cease. It is recommended that the band directors or the participating bands be advised to start playing the "Star Spangled Banner" or other appropriate songs if an altercation begins.
15. There shall be no accompanying of cheers by bass drums. If such occurs the bass drum and the drummer shall be removed from the premises. This does not mean that they cannot participate in the band, simply not accompany cheers.

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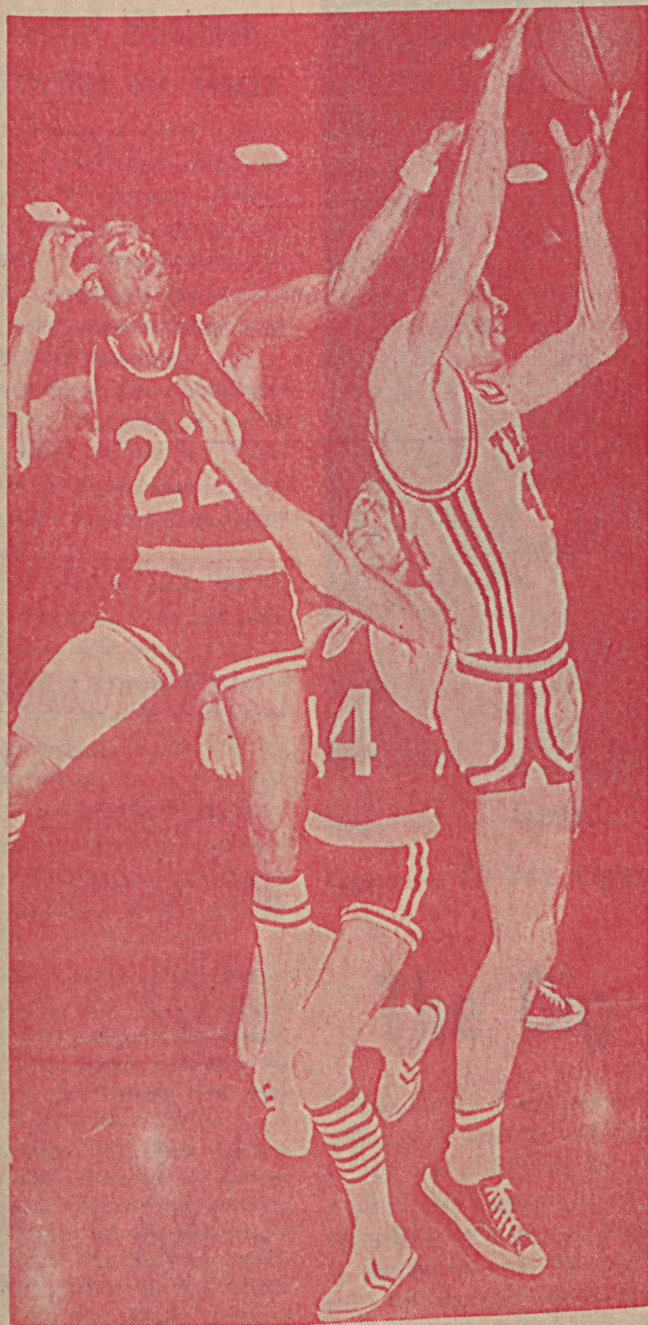
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## First Conference Win In Ten Years As Tech Downs Carroll

Montana Tech's first conference basketball victory in 10 years finally came February 10 when the Orediggers downed Carroll College 87-76. The game was won in the second half as Tech missed only four shots to average 87.5 per cent from the field.

Trailing 42-39 at the half, Coach Lester's crew started their torrid pace behind the shooting of Nick McEnaney and Clint Rouse who totaled 23 points apiece. With four minutes gone in the second half, the Orediggers took the lead for good with a 49-48 advantage. Jim Styler and Larry Harkins combined for 30 points scoring 19 and 11, respectively. Rounding out Tech's scoring were Don Klautdt with 7 and Warren Bickford with 4.

## Tech Fails To Skin Bears By A Hair

by Neil J. Bolton

February's Friday the 13th proved to be a nemesis to Montana Tech's basketball team as they were defeated at the hands of the Rocky Mountain College Bears by a score of 76-74.

The Orediggers ever improving cagers proved again, as in their past few outings, that they are an up and coming ball club and one to be reckoned with in seasons to come.

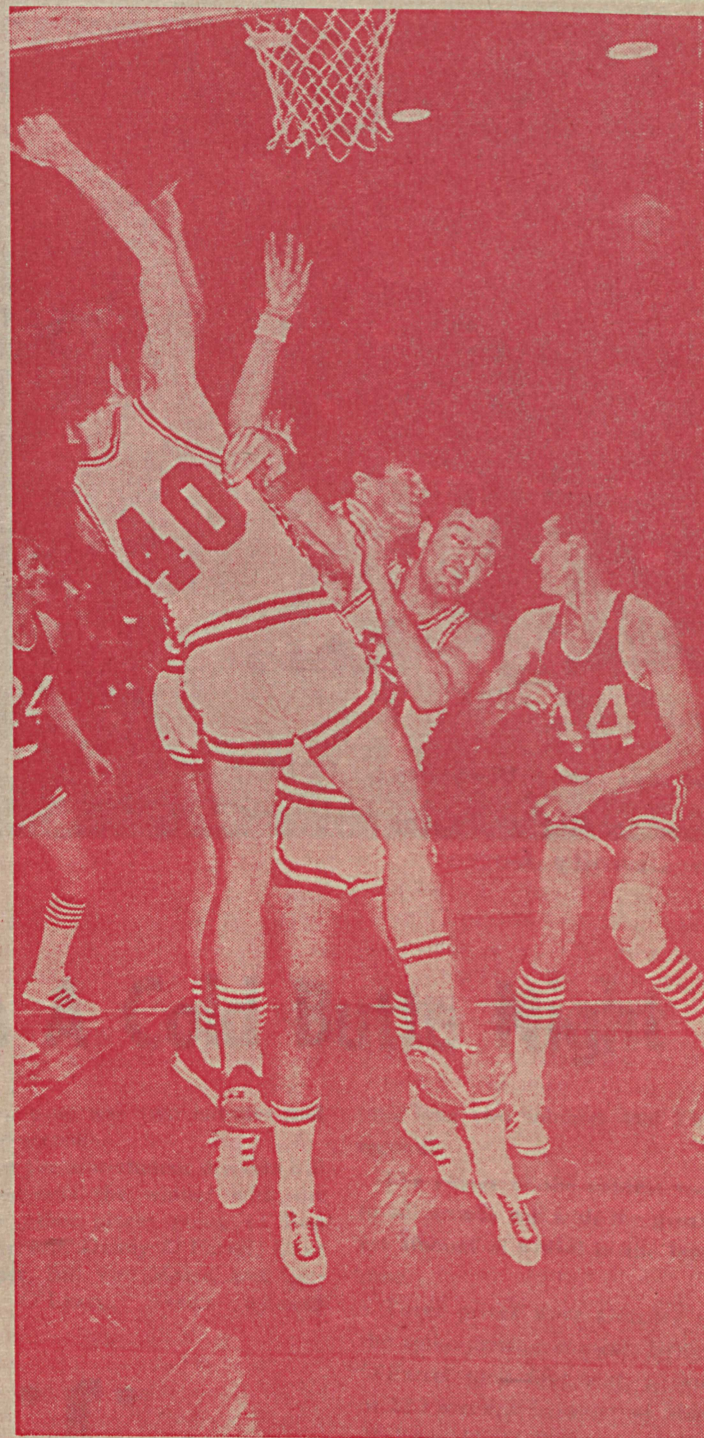
Tech controlled the ball the entire first half and went in at intermission with a 33-25 lead. However, the Bears came back strong, and taking advantage of superior height, sank five consecutive field goals to put Rocky back in contention.

With 1:34 left in the game and the score Rocky 74-Tech 70, Tech's fire-house five sparked by forward Clint Rouse, staged a brilliant come from behind drive and knotted the score at 74-74. Then with four seconds remaining and Tech pressing, Rocky's Rodney Young unleashed a 30-foot set shot that singed the net with the deciding two points.

Game scoring honors went to Tech's Clint Rouse who netted 27 points and was followed by teammate Nick McEnaney with 25.

High for Rocky were Rodney Young with 16 and Kevin Blodgett with 13.

Darkroom: Where many a girl with a negative personality is developed.



## Tech Climbing Club On The Way Up

Recent election of officers has kicked off another semester of activities for the Tech Climbing Club. Leading the way for this active group is Bob Chebul, president; Steve Czehura, vice-president; Steve Brown, secretary-treasurer; and Pat Whelan, the appointed safety officer. The climbers, now number more than forty, have already been on several trips this year and are scheduled to make numerous other technical climbs and back-pack expeditions in the near future. The most recent significant climb took place in December during the Christmas break. John and Pat Whelan, Steve Czehura and Paul Rust made a seven day winter assault on Granite Peak; the highest mountain in the State of Montana. Although the men were forced to turn back because of blizzarding winds and unbearable sub-zero temperatures, the trip was considered a success in the

respect that much general and technical climbing experience had been gained. Slides of this assault and of Dr. Antonioli's stay on Mt. Everest, along with assorted other climbs, will be shown from time to time by the Climbing Club.

A more recent improvement in the club concerns the formation of a rescue team which stemmed from the loss of two Butte students and three Bozeman students during a climbing expedition. The rescue team will be financed by Ray Martin, Clare Pogreba Memorial Fund and will exist for the purpose of rescue operations in the event other climbers need help. Donations in the amount of \$800 have already been received, including a special sum designated for the institution of a mountaineering section in the school library. At present the anticipated goal for the memorial fund is \$1500.

## Northern Lights Are Blinding

Friday, February 7, Montana Tech's Orediggers were overrun by Northern Montana College 88-61 for their sixth straight conference loss. With a 12-point halftime lead, the Lights played aggressive ball the second half to take the victory.

The game displayed an unusual event in that every player on both

teams got into the scoring column. Clint Rouse's 17 points took scoring honors for the Tech squad. Nick McEnaney added 12 points while also hauling down 11 rebounds. The rest of the scoring went as follows; Harkins 6, Klautdt 6, Styler 3, Gall 4, Howshaw 2, Sheridan 3, Bickford 2, and Nelson 6.

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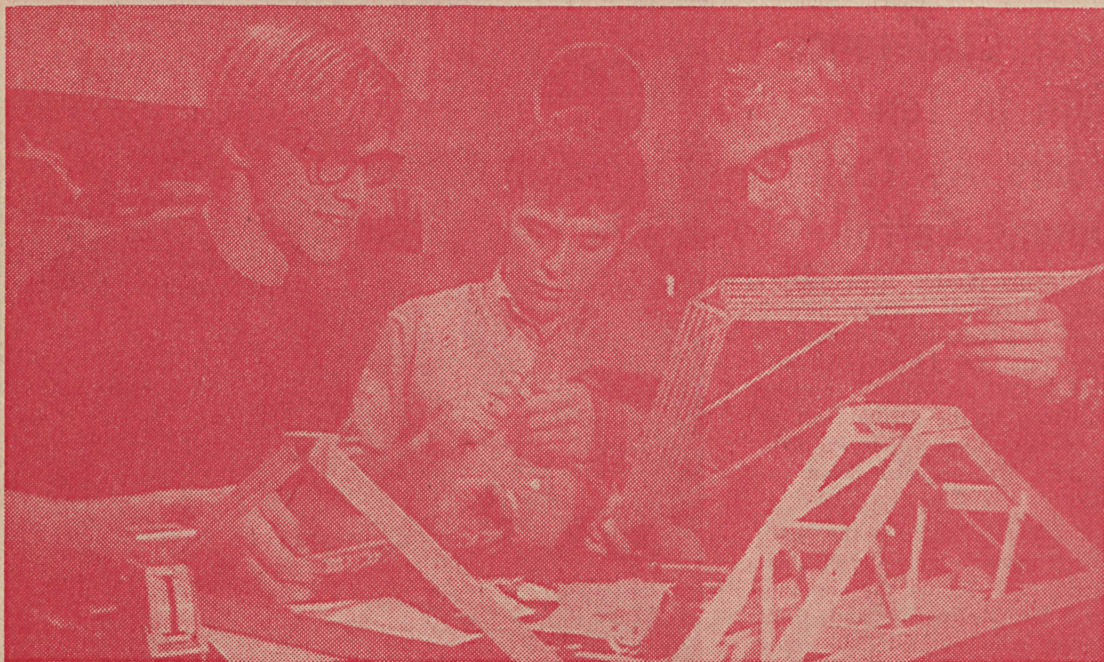
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Preparing bridges for the annual Tech 'Bridge Busting' contest are, left to right, John Evens, Eric Johnson, and Robin Sterrett.

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## COURSE

(Cont. from Page 2)

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According to Gustav Stolz, Jr., dean of students at Montana Tech, teachers interested in petroleum would do well to give this course serious consideration. Registration and college fees will be paid by the Montana Petroleum Association, which also will provide transportation for the scheduled field trip.

Application forms may be obtained by writing Dean Stolz, Montana Tech, Butte. Completed application forms must be received by March 15. Participants will be notified of their selection before April 15.

A girl with a heavy date usually wears something light.

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It consists of 22 separate sections, each on a specific aspect of blind readers' needs. Some of the subjects covered are braille publishers, sources of braille music, and large type periodicals.

The publication may be obtained from American Foundation for the Blind, 15 West 16th Street, New York, N. Y. 10011.

## RILEY

(Cont. from Page 1)

Wyoming in 1964.

Riley, who also will be athletic director, said, "The first thing I plan to do is start making contacts with high school coaches, athletic directors and players who have expressed an interest in attending Montana Tech to try to encourage many of Montana's outstanding players to attend our college." The new coach said that he will use basically the same game plan that Tech used this past year—basic running attack balanced with passing when needed.

The new Oredigger coach said that spring practice is tentatively set for the end of April and the first of May. Montana Tech will play its toughest schedule in years when it opens the 1970 season with three straight home games against Westminster College on Sept. 12, Colorado School of Mines on Sept. 19 and Fort Lewis College of Durango, Colo. on Sept. 26.

Riley said he is looking forward to meeting the Montana Tech Booster Club members in the near future. "I feel community support is a must in building a strong athletic program which will help continue the future growth of Montana Tech."

Riley is married to the former Margaret Dickman of Cheyenne, Wyo. They have five children, Kenneth, 11; Robert, 10; Jennifer, 6; Stephanie, 4; and Patty Jo, 3.

The haves and have-nots can often be traced back to the duds and did-nots. **Anonymous**

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